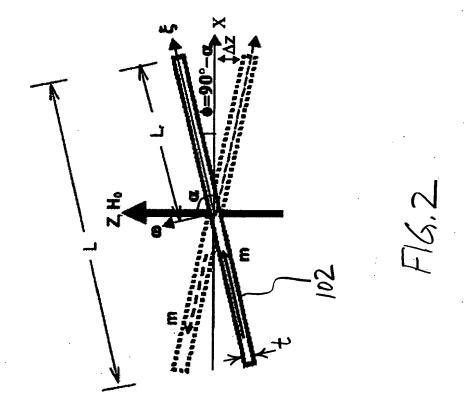


FIG.1B



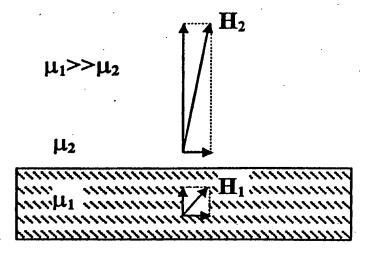
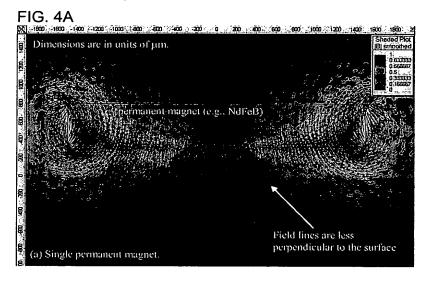


FIG.3



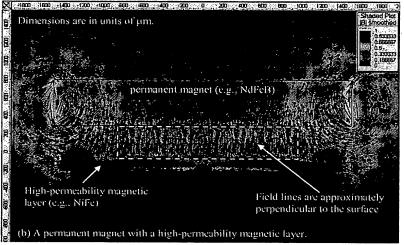
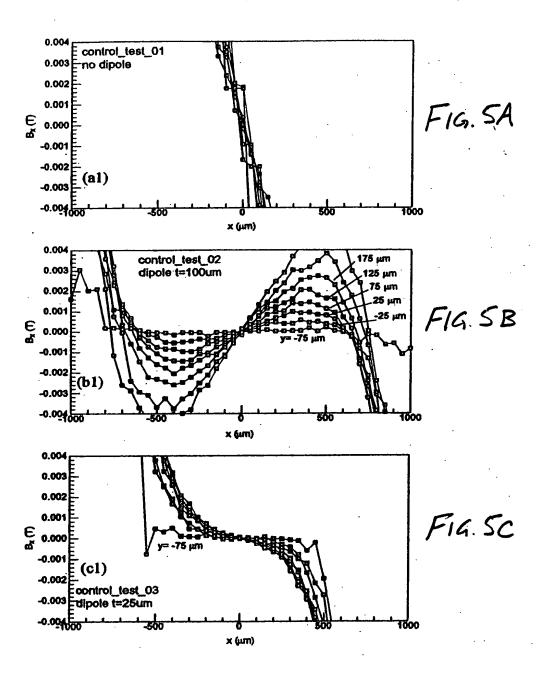
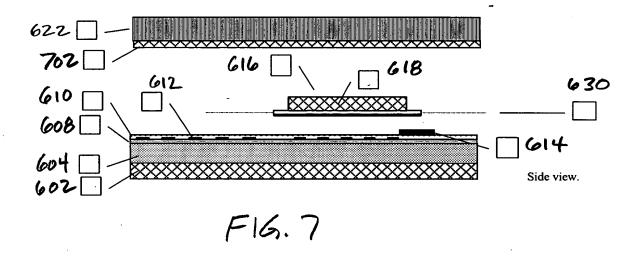
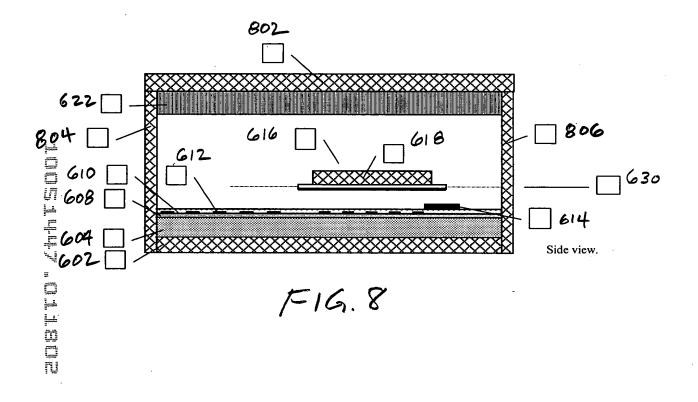


FIG. 4B



EL608987215US





### F16.9A

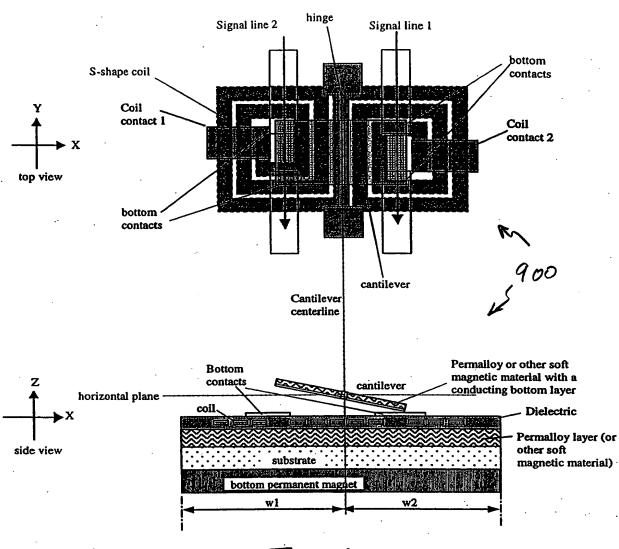
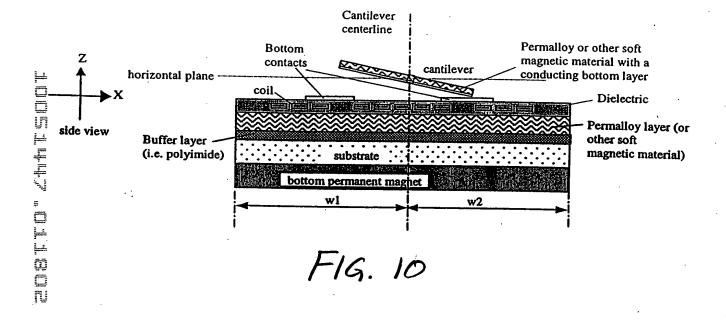
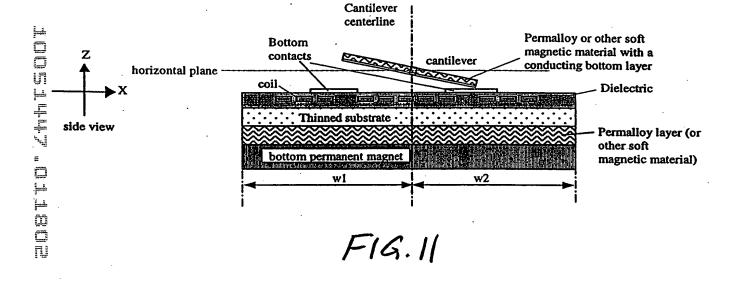
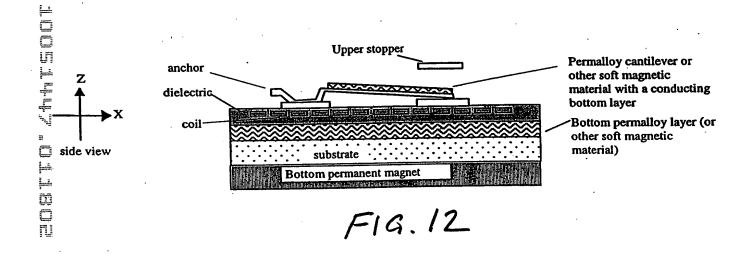


FIG. 9B



EL608987215US





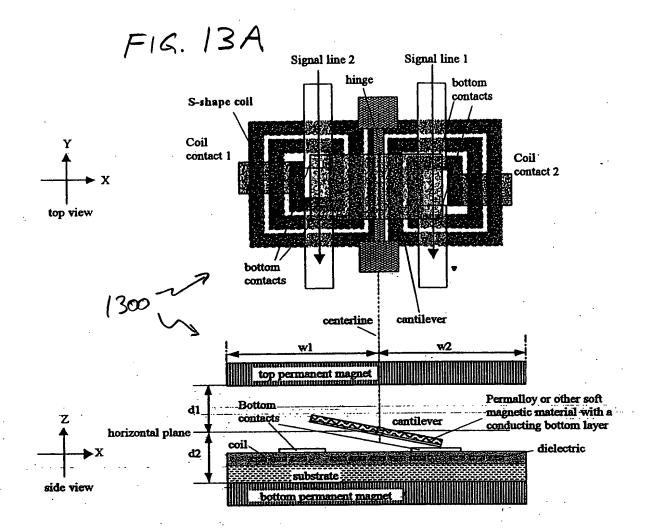
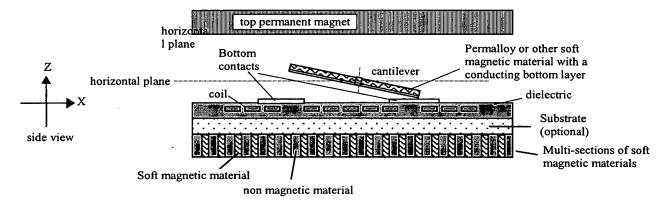
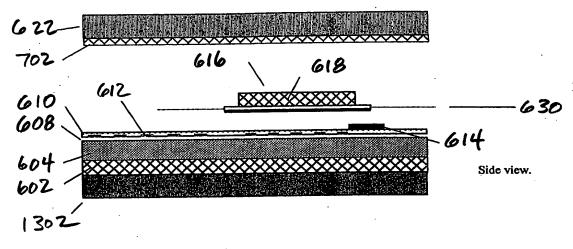


FIG 13B



F16. 13C



F16.13D

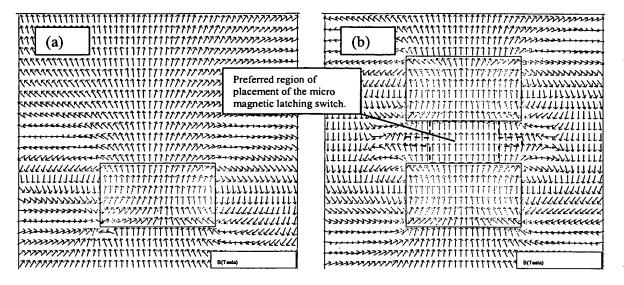
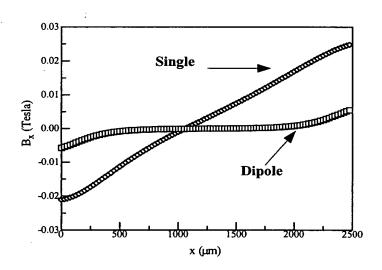


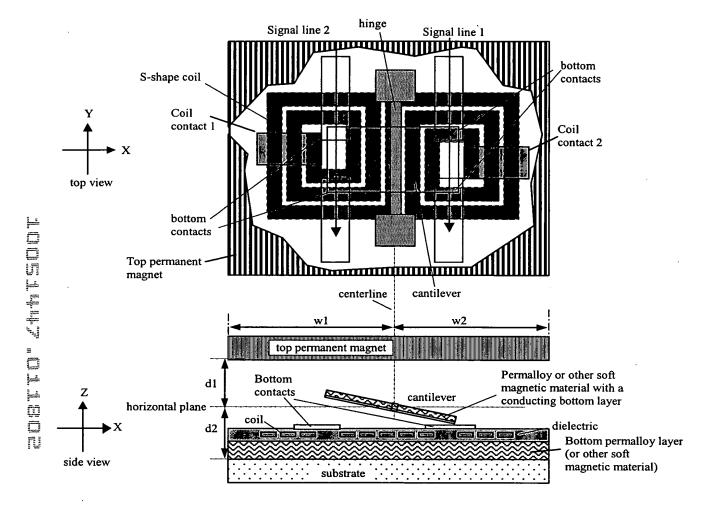
FIG. 14A

FIG. 14B

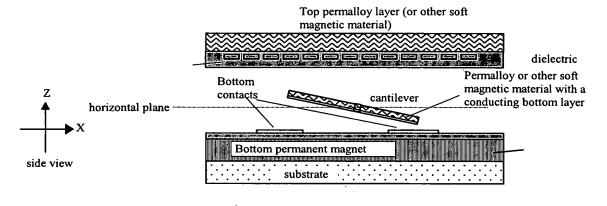


×(µm) F14. 14C

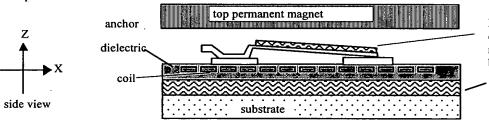
## FIG. 15A



F16.15B



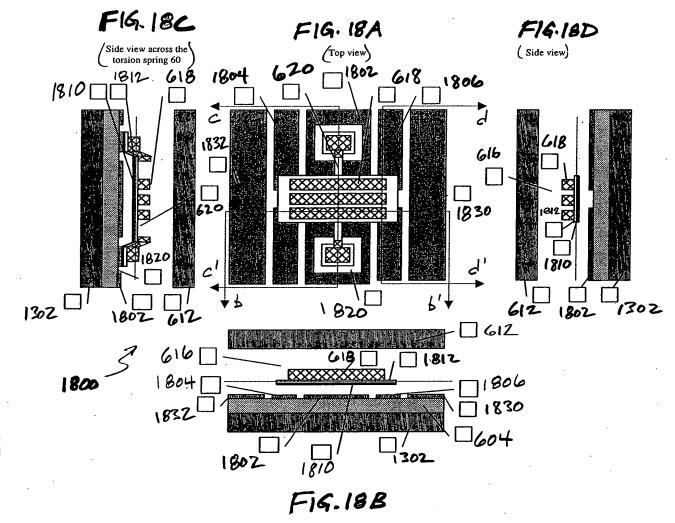
F14.16

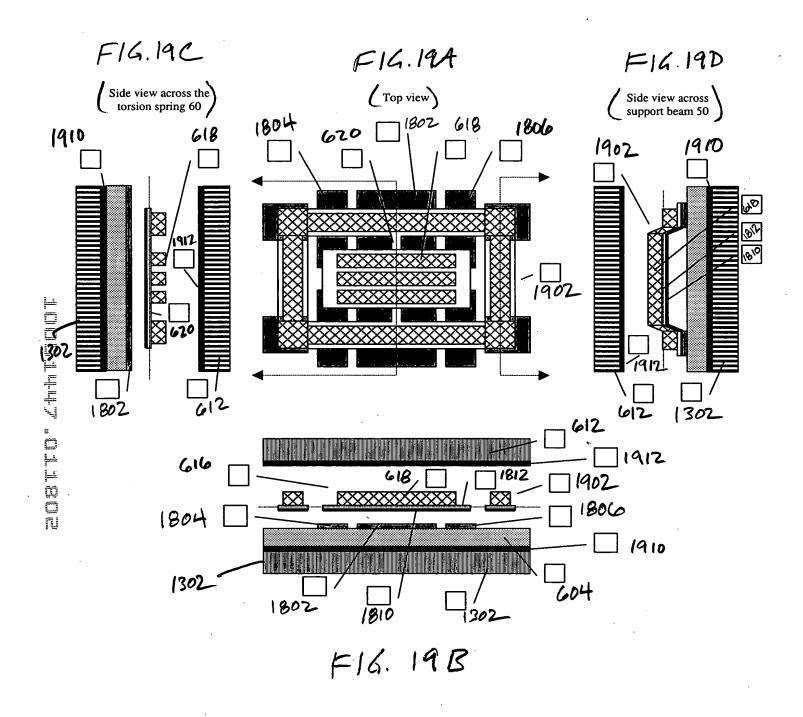


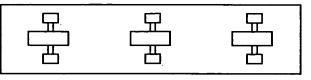
Permalloy cantilever or other soft magnetic material with a conducting bottom layer

Bottom permalloy layer (or other soft magnetic material)

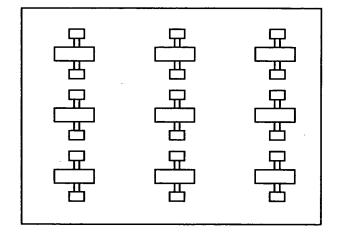
FIG. 17



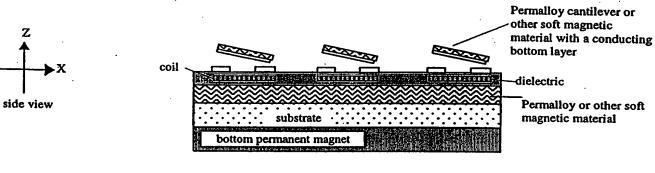




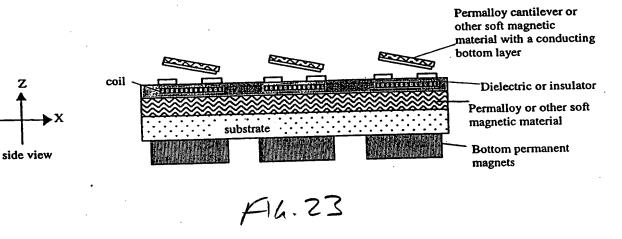
F16.20



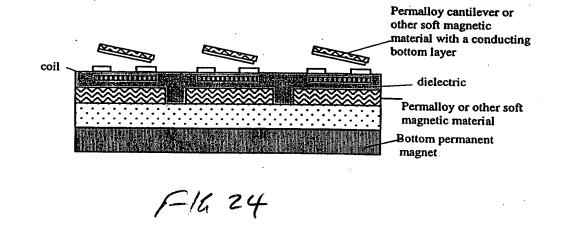
F16.21

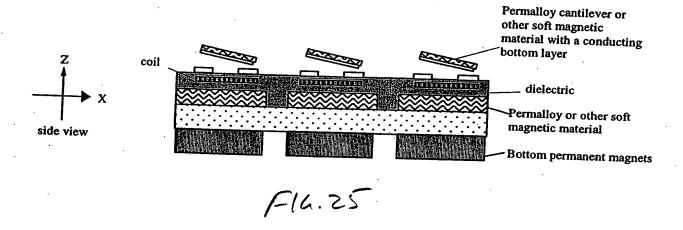


Z

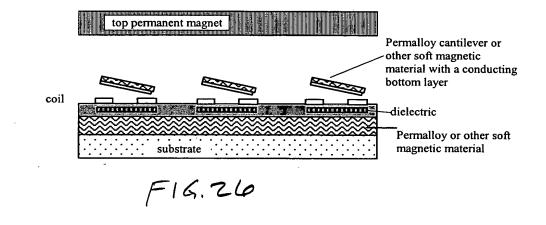


side view

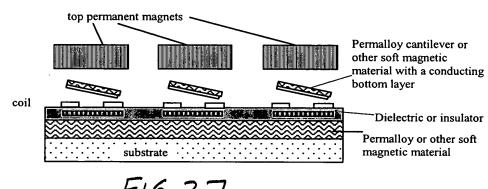




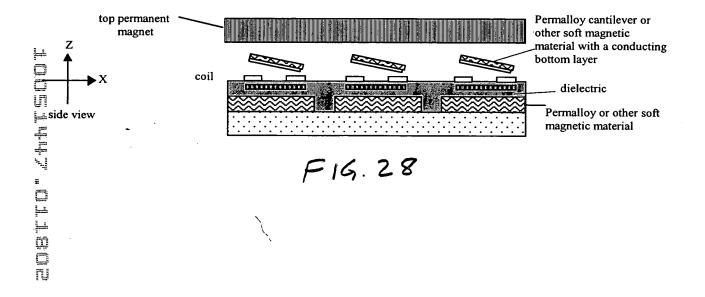
side view

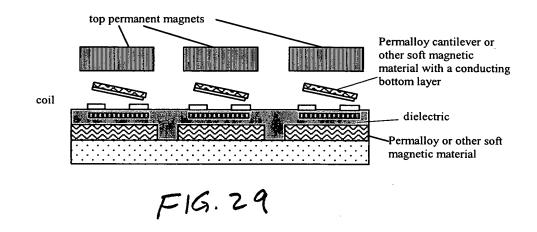




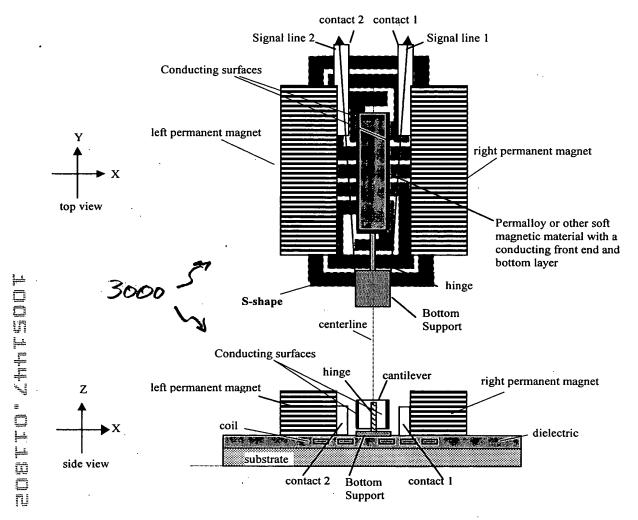


F19. 27

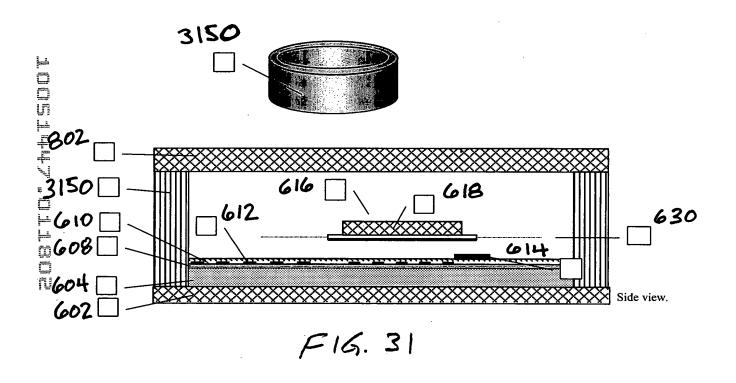




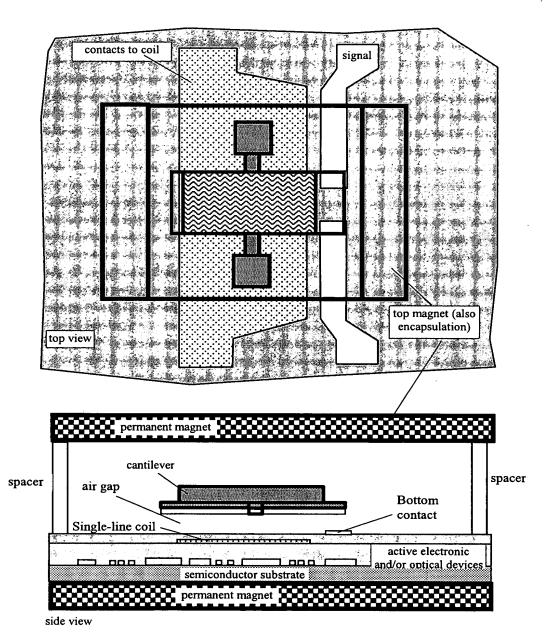
#### FIG. 30A



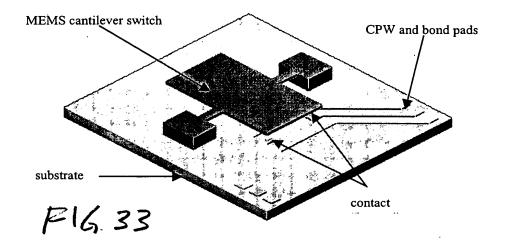
F1G. 30B

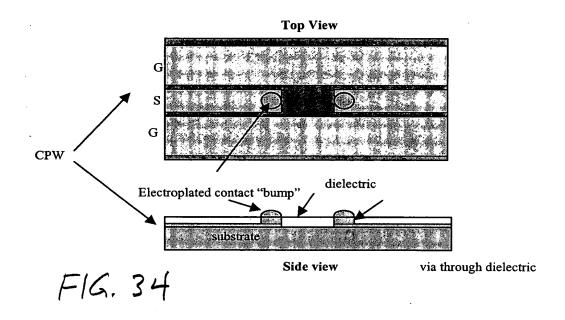


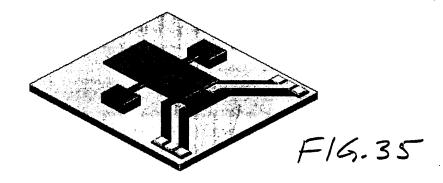
## F16. 32A



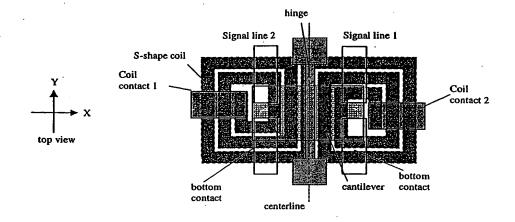
F16.32B

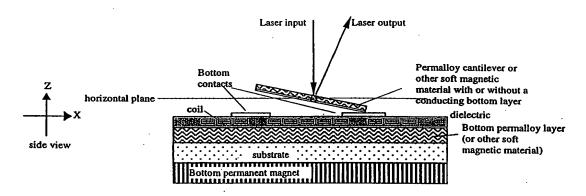






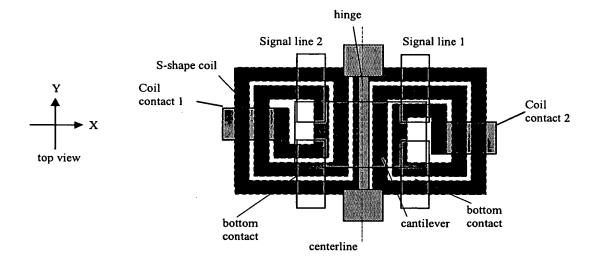
# F16.36A

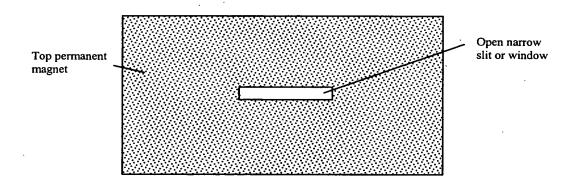




F14. 36B

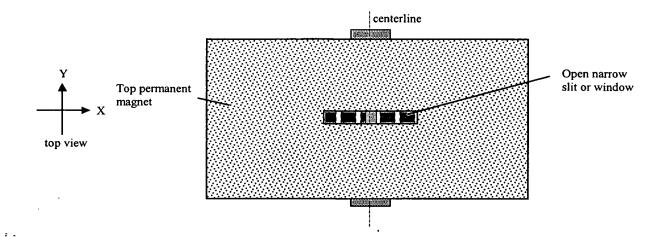
#### F16. 37A

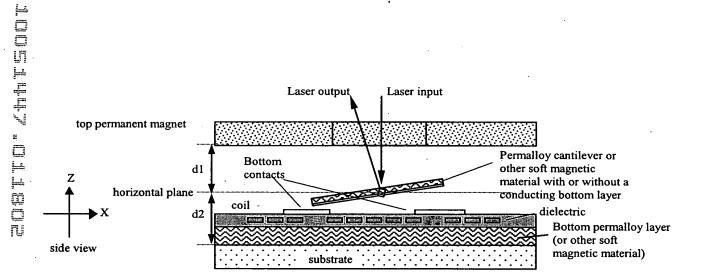




F16. 37B

# F14.37C





F16. 37D

